

# HYT

Cost Effective Professional Mobile Radio

Conventional Mobile Radio



## TM-600



- Wide-band Coverage
- Powerful Audio
- Versatile Signallings
- Password Protection

## TM-600 Cost Effective Professional Mobile Radio

The high-performance, yet simple-to-use TM-600 mobile is created to give you the immediate, reliable communication you need to keep mobile teams working efficiently.

HYT's voice compander audio enhancement and a powerful 5W internal or 13W external speaker ensure superb clear, crisp sound, even in noisy environments. The versatility of the TM-600 mobile helps you keep productivity and efficiency at a high level, no matter how fast your business grows.



### Super Features

#### Wide-band Coverage

Only one model is required in each individual frequency band: 136-174 MHz, 400-450 MHz, 450-500 MHz, the radio allows users the flexibility to select their frequency for use in their respective work environment without the need to buy different frequency models. Thus reduce inventory cost.

#### Compact Design

The compact TM-600 is ideal for mounting when space is constraint.

#### Powerful Audio

HYT's voice compander audio enhancement and a powerful 5W internal or 13W external speaker ensure superb clear, crisp sound, even in noisy environments.

#### Built-in Scrambler

Maintaining private and secure communications is increasingly important, with potentially sensitive information flowing back and forth. The TM-600's scrambler feature provides enhanced security for your important public safety and private security communications.

#### Versatile Signallings

The TM-600 mobile is packed with a full range of signalling capabilities, including CTCSS, CDCSS, DTMF Encode, 2-Tone, 5-Tone (\*), HYT exclusive HDC2400 (\*) & HDC1200 signalling (\*), and data transmission (\*) can be achieved.

#### Password Protection

The radio offers reading password to both protect the privacy and prevent unauthorized cloning of radio data.



Due to continuous technology development, the functions marked with an asterisk will be achieved later.





### Main features

#### ● 8 channels

The radio allows users the flexibility to program their frequency on each channel, in their respective work environment.

#### ● 4 Programmable backlight keys

Provides immediate and easy access to your favorite features.

#### ● Public Address (PA)

The PA feature feeds MIC audio through a powerful external PA amplifier, and outputs through external speaker, offering robust audio clarity in harsh, noisy environments.

#### ● Monitor

Offers users the flexibility to select the monitoring mode from the four types: Monitor Unmute-Momentary, Monitor Unmute-Toggle, Carrier Squelch-Momentary, and Carrier Squelch-Toggle.

#### ● 8-Segment Numeric LED

The numeric LED helps make information such as channel number and scanning indication, easy to understand at a glance. The LED illuminations also provide the visibility to operate your radio in the darkness.

#### ● Emergency Alarm

While emergency or accident occurs, press the Emergency button to transmit discreetly signals to the dispatcher or a pre-defined person for emergency help, enables improved security and safety.

#### ● Wired Clone/MSK Wireless Clone

Allows duplication of radios in the field, for improved efficiency and time saving.

#### ● UST (User Selectable Tone)

User can select CTCSS/CDCSS codes via the programmed function key. Up to 10 UST codes can be pre-stored for convenient operation.

#### ● DTMF Function

DTMF flexible dialing: manual dial, redial, short number dial, and auto-dial; maximum 9 groups of DTMF encode can be stored.

#### ● Built-in Modem[\*]

The built-in 1200/2400bps MSK modulator offers data transmission function.

#### ● Scan

Radio scan includes features such as Nuisance Channel Delete, Priority Channel Scan, Priority Channel setting, etc.

### Other Features:

- PC Programming
- Dual Home Channels
- Ignition Sense Power Off
- Auto Transpond
- TOT (Time-out Timer)
- Busy Channel Lockout (BCL) / BCL Override
- BOT/EOT
- Off-Hook Decode
- Selectable Squelch Level (9 levels)
- Reverse Frequency)
- Talk Around

### Standard Accessories:



Microphone



Mounting Bracket



Power Cable

### Optional Accessories:



Keypad Microphone



Cloning Cable



Programming Cable



Mobile Antenna

## TM-600 Specifications:

### General

	VHF	UHF
Frequency Range	136-174MHz	400-450MHz 450-500MHz 350-390MHz
Channel Capacity	8	
Channel Spacing	25/20/12.5KHz	
Operating Voltage	13.6V DC $\pm 15\%$	
Current Drain	Standby: 0.5A	0.5A
	Receive: <2.0A	<2.0A
	Transmit: <8A (25W)	<8A (25W)
Frequency Stability	$\pm 2.5\text{ppm}$	
Operating Temperature	$-30^{\circ}\text{C} \sim +60^{\circ}\text{C}$	
Antenna Impedance	50 $\Omega$	
Dimensions (L X W X H)	43 X 152 X 125 (mm)	
Weight	1.0kg	

### Receiver

#### TM-600

Sensitivity	0.28/0.33/0.35 $\mu\text{V}$
Selectivity	75/70/65dB
Intermodulation	70/70/65dB
Spurious Response Rejection	75dB
S/N (wide/narrow)	>45dB (25/20KHz) >40dB (12.5KHz)
Internal	5W (less than 5% distortion)
Audio Power Output	3W (less than 3% distortion) 13W (less than 5% distortion)
External Audio Power Output	12W (less than 3% distortion)

### Transmitter

#### TM-600

RF Power Output	5W/25W
Modulation	F3E
Spurious and Harmonics	75dB
FM Noise	>45dB (25/20KHz) >40dB (12.5KHz)
Audio Distortion	$\leq 3\%$

## Applicable MIL-STD-810C/D/E/F

Standard:	MIL 810 C Methods/ Procedures	MIL 810 D Methods/ Procedures	MIL 810 E Methods/ Procedures	MIL 810 F Methods/ Procedures
Low Pressure	500.1/I	500.2/I.II	500.3/I.II	500.4/I
High Temperature	501.1/I.II	501.2/I.II	501.3/I	501.4/I.II
Low Temperature	502.1/I	502.2/I.II	502.3/I.II	502.4/I.II
Solar Radiation	505.1/I	505.2 /I	505.3/I	505.4/I.II
Rain	506.1/II	506.2/II	506.3/II	506.4/III
Humidity	507.1.II	507.2/II.III	507.3/II.III	507.4/I
Salt Fog	509.1/I	509.2/I	509.3/I	509.4/I
Dust	510.1.I	510.2 /I	510.3/I	510.4/I
Vibration	514.2/VIII.X	514.3/I	514.4/I	514.5/I
Shock	516.2/I.II.V	516.3/I.IV	516.4/I.IV	516.5/I



ISO9001:2000 Certificate NO:FM 61540



**SHENZHEN HYT SCIENCE & TECHNOLOGY CO., LTD.**  
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